

# CREM Data Dictionary

## DIR\_MODEL\_INFO Table

Details of model science.

CONCEPT varchar2 (4000) nullable

The conceptual basis of a model includes the most important behaviors of the object or process relevant to the problem of interest. For more details, see §2.2 in Guidance on the Development, Evaluation, and Application of Regulatory Environmental Models (forthcoming, hereinafter referred to as Guidance on Environmental Models).

DECISIONDOCS varchar2 (4000) nullable

Documents that provide additional information about using the model and/or presentations of model results and experience.

DIR\_ENTRY\_ID number (10) not null PK

Unique model identifier.

DOWNLOADINFO varchar2 (4000) nullable

The URL where the model can be downloaded. If the model is not available via the internet, another source for obtaining the model may be provided. This field should contain any information that is essential for obtaining the model.

EVALUATION varchar2 (4000) nullable

Model evaluation is the process for generating information that helps to determine whether a model and its analytical results are of a quality sufficient to serve as the basis for a decision. In simple terms, model evaluation provides information to help assess the following factors:

- (a) How have the principles of sound science been addressed during model development?
- (b) How is the choice of model supported by the quantity and quality of available data?
- (c) How closely does the model approximate the real system of interest?
- (d) How does the model perform the required task while meeting the objectives set by Quality Assurance Project Planning?

For more details, see §3.0 in Guidance on Environmental Models.

FORMULATION varchar2 (4000) nullable

Model framework is a formal mathematical specification of the concepts and procedures of the conceptual model. The mathematical framework is usually translated into a form amenable to running on a computer (i.e., algorithm development and model coding). For more details, see §2.3 in Guidance on Environmental Models.

GUIDANCEDOCS varchar2 (4000) nullable

The primary source of user information about the model.

MODELCONTACTINFO varchar2 (2000) nullable

The program office or regional office contact for the model. This contact is an experienced model user and is familiar with recent changes and updates. Questions about the use of the specific model should be directed to this person.

MODELINPUTS varchar2 (2000) nullable

The major input variables and/or quantities that are required by the model.

MODELOUTPUTS varchar2 (2000) nullable

The major output variables and/or quantities that are produced by the model.

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RELATEDURL varchar2 (200) nullable

The model's homepage. If no homepage exists, this can be an internet page that provides information about the model.

SCIENCE\_DETAIL varchar2 (4000) nullable

The scientific detail of a model includes information that is more technical and domain-specific than would be included in the conceptual basis of a model. This may include details about the behaviors of the object or process relevant to the problem of interest. Scientific detail may also include specific information about modeling tools and techniques.

## DIR\_ENTRIES Table

General model information.

DIR\_ENTRY\_ID number (10) not null

Unique model identifier.

DIR\_ENTRY\_NAME varchar2 (500) not null

Model name.

DIR\_ENTRY\_STATUS varchar2 (20) not null

Status of model review.

REVISION\_DATE date not null

Date the model was last reviewed.

## DIR\_MODEL\_CATALOG Table

Linking table for models and associated criteria.

DIR\_ENTRY\_ID number (10) not null

Unique model identifier.

MODEL\_CATALOG\_ID number (10) not null

Unique model criteria identifier.

## MODEL\_CATALOG Table

Model criteria.

CATALOG\_LEVEL varchar2 (20) not null

Level of specificity of the criteria.

DESCRIPTION varchar2 (500) not null

Description of criteria.

MODEL\_CATALOG\_ID varchar2 (2000) not null

Criteria unique identifier.

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## DIR\_ABSTRACT Table

Linking table for models and associated criteria.

DIR\_ENTRY\_ID number (10) not null  
Unique model identifier.

ABSTRACT clob nullable  
Unique model identifier.

## MODEL\_COMP\_REQ Table

Model computer requirements.

HARDWARE varchar2 (2000) nullable  
Computer hardware required and/or recommended to support model.

DIR\_ENTRY\_ID number (10) not null  
Model unique identifier.

OPERATING\_SYSTEMS varchar2 (2000) nullable  
Operating system(s) of the computer that support the model.

OTHER\_REQ varchar2 (2000) nullable  
Other computer requirements to support the model and/or additional features of the model.

PROG\_LANGUAGE varchar2 (2000) nullable  
Programming language(s) to support the model.

## CONTACTS Table

This is the EIMS contact for the model.

CONTACT\_ID number (38) not null  
Unique identifier for the EIMS contact.

DIR\_ENTRY\_ID number (10) not null  
Unique identifier for the model.

ROLE varchar2 (40) not null  
Role of the contact.

PERSON\_ID number (5) nullable  
Unique person identifier.

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## PERSONS Table

This is information pertaining to the EIMS model contact

PERSON\_ID number (5) not null

Unique person identifier.

FIRST\_NAME varchar2 (15) not null

Contact's first name.

LAST\_NAME varchar2 (30) not null

Contact's last name.

MIDDLE\_INITIAL varchar2 (1) nullable

Contact's middle initial.

PHONE\_1 varchar2 (20) nullable

Contact's phone number.

PHONE\_FAX varchar2 (20) nullable

Contact's facsimile number.

EMAIL\_ADDRESS\_1 varchar2 (50) nullable

Contact's e-mail address.